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Page (1) ACP VO4

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MODULE ACPCNTRL ( LANGUAGE (BLISS32), IDENT = 'V04-000'

BEGIN

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FACILITY: F11ACP Structure Level 1

ABSTRACT:

This module implements the ACP control I/O function.

**ENVIRONMENT:** 

STARLET operating system, including privileged system services and internal exec routines.

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AUTHOR: Andrew C. Goldstein, CREATION DATE: 23-May-1979 17:07 MODIFIED BY:

STJ0310 Steven T. Jeffreys, 1-Jun-1982 Addd REMOUNT control function handler. It's a NOP. V03-004 STJ0310 1-Jun-1982

V03-003 LMP0026 L. Mark Pilant, 17-May-1982 14:15 Rearrange some code sequences to avoid the possibility of taking a page fault at an elevated IPL.

```
ACPCNTRL
V04-000
                                                                                                                                       16-Sep-1984 00:46:59
14-Sep-1984 12:29:18
                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 [F11A.SRCJACPCNTRL.B32;1
                                                                                                                                                                                                                                                                      Page
                                                                   V03-002 ACG0285 Andrew C. Goldstein, 12-Approximately Fix cathedral window logic for empty headers
                                  0058
0059
0060
0061
0062
0063
0064
0065
0066
0067
0071
0072
                                                                                                                                                                        12-Apr-1982 17:26
      LMP0018

L. Mark Pilant, 31-Mar-1982 12:00 Modify to use a local of the window complete flag. Also, fix som problems with remapping windows that don't map the beginning of the file.
                                                                   V03-001 LMP0018
                                                                   V02-001 LMP0005
                                                                                    LMP0005 L. Mark Pilant, 29-Dec-1981 10:36 Add routine to remap a file into multiple windows. This
                                                                                    routine was taken, with minor modifications, from F11BACP.
                                                   ...
                                                  LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:FCPDEF.B32';
                                  0389
                                  0390
0391
                                                      Range of control function codes recognized by this module.
                                 0392
                                 0394
0395
0396
0397
0398
0399
                                                 LITERAL
                                                                                                    = MINU (FIBSC_LOCK_VOL,
FIBSC_UNLK_VOL,
FIBSC_ENA_QUOTA,
FIBSC_ADD_QUOTA,
FIBSC_EXA_QUOTA,
FIBSC_MOD_QUOTA,
FIBSC_REM_QUOTA,
FIBSC_REM_QUOTA,
FIBSC_REMAP
                                                                   MIN_CNTRLFUNC
                                 0400
0401
0402
0403
0404
0405
0406
0407
0408
0409
0411
0412
0413
0414
0415
0416
0417
0418
0421
0422
                                                                                                   = MAXU (FIBSC_LOCK_VOL,
FIBSC_UNLK_VOL,
FIBSC_ENA_QUOTA,
FIBSC_EXA_QUOTA,
FIBSC_EXA_QUOTA,
FIBSC_REM_QUOTA,
FIBSC_REM_QUOTA,
FIBSC_REM_QUOTA,
FIBSC_REMAP
                                                                   MAX_CNTRLFUNC
                                                  FORWARD ROUTINE
                                                                   ACPCONTROL
                                                                                                                                           ACPCONTROL function routine
                                                                   MARK CATHEDRAL ADD DINDOW
                                                                                                     : NOVALUE,
                                                                                                                                           flag window as being cathedral
                                                                                                                                       ! add a window to the queue
! remove and deallocate a window segment
! set the window as the last segment
                                                                                                     2
                                                                                                        NOVALUE,
                                                                   REMOVE WINDOW
LAST_SEGMENT
                                                                                                     : NOVALUE,
      108
                                                                                                     : NOVALUE;
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ACPENTAL VO4-000								16-Sep- 14-Sep-	1984 00:46 1984 12:29	:59	VAX-11 Bliss-32 V4.0-742 [F11A.SRC]ACPCNTRL.B32;1	Page (2
167 168 169 170	0480 0481 0482 0483	2 IF .BBLOCK [IO_PACKET[IRP\$W_FUNC], IO\$V_DMOUNT] 2 THEN RETURN 1; ! DMOUNT is a NOP for ODS-1										
171	0484 0485	IF .BBLOCK [10_PACKET[IRPSW_FUNC], 10\$V_REMOUNT] THEN RETURN 1: ! REMOUNT is a NOP for ODS-1										
171 172 173 174 175 176 177 178 179 180 181 182 183 184	0484 0485 0486 0487 0488 0489 0491 0491 0493	2			FUNC] EQL			! 0 is				
176 177 178	0489 0490 0491	2			ontrol fu		on.					
179 180	0492 0493	2 IF .FI	IB[FIB\$W_	CNTRL	FUNC] EQL	FIB	SC_R	REMAP THEN	REMAP_FILE	();		
181 182 183	0494 0495 0496	RETURN	N 1;									
184	0497	T END:						! end o	of routine	ACPCON	ITROL	
									.TITLE	ACPCN VO4-	TRL 000\	
									.EXTRN	CLEAN GET_F	IUP_FLAGS, IO_PACKET IB, REMAP_FICE	
									.PSECT	\$CODE	\$,NOWRT,2	
		2A	2A	50 A0 50	0000G 2C	CF 03	DO E1	00002 00007 0000C	ENTRY MOVL BBC MOVL	ACPC0 10_PA #3. 4	NTROL, Save nothing CKET, RO 2(RO), 1\$ 80), ABD	042 047
		15 10	0000G 21 21	CF 51 A1 A1	0000G	B0 01 CF 03 A0 05 00 01	DDD BDD BDD BD BD BD BD BD BD BD BD BD B	00010 00012 00017 0001C 00021 00026 00029	PUSHL CALLS MOVL BBS BBS		ET_FIB CKET, R1 3(R1), 1\$ 3(R1), 1\$ B)	047 048
				10	16	AO OB AO	R1	UUUZN	MOVL BBS BBS TSTW BEQL CMPW BNEQ CALLS	22(FI 1\$ 22(FI	B), #16	048 048 049
			0000G	CF 50		00	B1 12 FB D0 04	0002F 00031 00036 1\$:	CALLS MOVL RET	#0. R	EMAP_FILE	049 049

; Routine Size: 58 bytes, Routine Base: \$CODE\$ + 0000

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ACPCNTRL
V04-000
                                                                                                                                      VAX-11 Bliss-32 V4.0-742
[F11A.SRCJACPCNTRL.B32;1
                                                                                                                                                                                              Page
                        WINDOW POINTER = .WINDOW POINTER + 6;
IF .WINDOW_VBN GEQ .HEADER_VBN THEN LEAVE WINDOW_TRUNCATE;
    WINDOW_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
                                          UNTIL . WINDOW_SEGMENT EQL 0:
                                          BUG_CHECK (WCBFCBMNG, FATAL 'WCB/FCB correspondence broken');
                                          END:
                                                                                                  ! end of block WINDOW_TRUNCATE
                                       The window which corresponds to the last FCB has been found. Truncate the
                                       current window and remove any succeeding window segments.
                                          FCB = .LAST_FCB;
NEXT_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
KERNEL_CALL (LAST_SEGMENT, .WINDOW_SEGMENT);
UNTIL .NEXT_SEGMENT EQL 0
                                                                                                                          ! current segment is now the end
                                                 BEGIN
                                                LOCAL JUNK_SEGMENT : REF BBLOCK; ! ad JUNK_SEGMENT = .NEXT_SEGMENT; NEXT_SEGMENT[WCB$L_LINK]; KERNEL_CALL (REMOVE_DINDOW, .JUNK_SEGMENT);
                                                                                     : REF BBLOCK; ! address of block to deallocate
                                          END:
                                                                                                  ! end of block HEADER_CHECK
                                       Map any additional file headers or rebuild the last window if cleaning up
                                       from an extend operation.
                                          WHILE 1 DO
                                                 BEGIN
                                                KERNEL_CALL (TURN_WINDOW, .WINDOW_SEGMENT, .HEADER, 1, .FCB[FCB$L_STVBN]);
IF .CLEANUP_FLAGS[CLF_INCOMPLETE]
                        0706
0707
                                                 THEN
                                                       BEGIN
                        0708
                                                       KERNEL CALL (MARK INCOMPLETE, .CURRENT_WINDOW);
ERR_EXIT (SS$_EXBYTLM);
                        0709
                        0710
                                                IF .FCB[FCB$L_EXFCB] EQL O THEN EXITLOOP O;

UNTIL .WINDOW SEGMENT[WCB$L_LINK] EQL O

DO WINDOW SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];

FCB = .FCB[FCB$L_EXFCB];

HEADER = READ_HEADER (O, .FCB);
                        0716
0717
                        0718
0719
                                          WINDOW_SEGMENT = .NEW_WINDOW[WCB$L_LINK];
UNTIL .WINDOW_SEGMENT EQL 0
                        0720
0721
0722
0723
                                                 BEGIN
                                                 KERNEL_CALL (ADD_WINDOW, .WINDOW_SEGMENT, .PRIMARY_FCB[FCB$L_WLBL]);
WINDOW_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
```

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KERNEL\_CALL (MARK\_COMPLETE, .CURRENT\_WINDOW); RETURN: END:

Third case; the file was never completely mapped. For this case no special precautions need to be taken. Simply loop through all the FCB's associated with the file, and create as many window segments as necessary.

FCB = .PRIMARY\_FCB;
WINDOW\_SEGMENT = .CURRENT\_WINDOW; KERNEL\_CALL (MARK\_CATHEDRAL, .WINDOW\_SEGMENT); !build cathedral windows

Now build the new windows using the original primary window as the base for the new window segments. This is necessary to aviod having to mung the primary window address which may reside in several places. It also means that if an error occurs, the new window created will be valid, but it will not be the same as it started out.

```
UNTIL .FCB EQL 0
OC
       BEGIN
       HEADER = READ_HEADER (0, fCB);
UNTIL .WINDOW_SEGMENT[WCB$L_LINK] EQL 0
DO WINDOW_SEGMENT = .WINDOW_SEGMENT[WCB$L_LINK];
KERNEL_CAEL (TURN_WINDOW, .WINDOW_SEGMENT, .HEADER, 1, .fCB[f(B$L_STVBN]);
IF .CLEANUP_FLAGS[CLF_INCOMPLETE]
        THEN
               BEGIN
               KERNEL_CALL (MARK_INCOMPLETE, .CURRENT_WINDOW);
ERR_EXIT (SSS_EXBYTLM);
               END
       FCB = .FCB[FCB$L_EXFCB];
       END:
WINDOW_SEGMENT = .CURRENT_WINDOW[WCB$L_LINK];
UNTIL .WINDOW_SEGMENT EQL 0
```

BEGIN KERNEL\_CALL (ADD\_WINDOW, .WINDOW\_SEGMENT, .PRIMARY\_FCB[FCB\$L\_WLBL]); WINDOW\_SEGMENT = .WINDOW\_SEGMENT[WCB\$L\_LINK];

KERNEL\_CALL (MARK\_COMPLETE, .CURRENT\_WINDOW); RETURN:

END:

! end of routine REMAP\_FILE

PRIMARY FCB, CURRENT WINDOW DEALLOCATE, READ HEADER TURN WINDOW, MARK COMPLETE MARK INCOMPLETE .EXTRN **EXTRN** EXTRN EXTRN SYSSEMKRNL, BUGS\_WCBFCBMNG .EXTRN

ACPCNTRL V04-000

414

412212345678901234567890123456789

460 461

0740

0741 0742

0744 0745 0746

0768 0769 0770

0771

					1	5-Sep-1	1984 00:46 1984 12:29	:59 VAX-11 Bliss-32 V4.0-742 :18 [F11A.SRC]ACPCNTRL.B32;1	Page 10 (3)
				L	00000		.ENTRY	REMAP_FILE, Save R2,R3,R4,R5,R6,R7,R8,R9,-	: 0498
		5E	0000G 00AC	04 CF 05 8F	00002 05 00005 12 00009 BF 0000B 04 0000F		SUBL2 TSTL BNEQ CHMU	R10,RT1 #4, SP CURRENT_WINDOW 18 #172	0571
1D 01	08 08	50 A0 A0	00006	CF 05 06	DO 00010 E1 00015 E1 0001A	15:	RET MOVL BBC BBC	CURRENT WINDOW, RO #5, 11(RO), 3\$ #6, 11(RO), 2\$	0576 0577
12 00	0B	AO AO			04 0001F E1 00020	2\$:	BBC RET BBC BBS		0595
OD	08	AO	0000v	05 06 50 01 5E CF	E1 00020 E0 00025 DD 0002C DD 0002C 9F 00030 31 00037 E0 0003C 31 00041 D0 00044 D0 00047		BBS PUSHL PUSHL PUSHL PUSHAB	#5. 11(R0). 3\$ #6, 11(R0), 3\$ R0 #1 SP MARK_CATHEDRAL	0598
03	08	50 A0	0000G	224 CF 06	31 00034 00 00037 E0 0003C	3\$:	BRW MOVL BBS BRW	36\$ CURRENT WINDOW, RO #6, 11(RO), 4\$	0606
		52 55	0000G	16F 50 CF A2	D5 0004C	4\$: 5\$:	MOVL MOVL TSTL	27\$ RO, WINDOW SEGMENT PRIMARY FCB, FCB 32(WINDOW_SEGMENT)	0609 0610 0612
		52	20	90 A2	DO 00051		MOVL	32(WINDOW_SEGMENT), WINDOW_SEGMENT	0613
		6E 56 54 50	20 30 16	A6252222094	DO 00057 DO 0005A 9E 0005E 3C 00062 D6 00066	6\$:	BRB MOVL MOVAB MOVZWL INCL	WINDOW SEGMENT, NEW WINDOW 44(WINDOW SEGMENT), WINDOW ENDVBN 48(R2), WINDOW POINTER 22(WINDOW SEGMENT), J J	0614 0616 0617 0618
		51		09 84	11 00068 30 0006A	75:	BRB MOVZWL	8\$ (WINDOW_POINTER)+, R1	0620
		51 56 54 F4 5A 56	20	51 050 555 055 A51	CO 0006D CO 00070 F5 00073 DO 00076 D1 00079 14 0007D	8\$: 9\$:	ADDL2 ADDL2 SOBGTR MOVL CMPL	R1, WINDOW_ENDVBN #4, WINDOW_POINTER J. 7\$ FCB, LAST FCB 44(FCB), WINDOW_ENDVBN	0621 0618 0625 0628
		5A 55	oc	09 55 A5	14 0007D D0 0007F D0 00082 12 00086		BGTR MOVL MOVL	FCB, LAST FCB 12(FCB), FCB	0629 0630
		55		5A 55	00088	10\$:	BNEQ MOVL PUSHL	9\$ LAST_FCB, FCB	0632 0633 0634
	00006	CF 58 53 50 51 50 53	OA	7E2050 A80 A60 A60 B640 B640 B640 B640 B640 B640 B640 B6	F5 00073 D0 00076 D1 00079 14 0007D D0 00082 12 00086 D0 00088 DD 0008B D4 0008B D4 0008B D4 0008F D0 00094 D0 00097 9A 0009F 9E 000A3 D1 000A7 12 000AA 31 000AC 9A 000AF		PUSHL CLRL CALLS MOVL MOVZBL MOVAW MOVAB CMPL BNEQ BRW	FCB -(SP) #2. READ_HEADER RO. HEADER 44(FCB), HEADER_VBN 1(HEADER), RO (HEADER)[RO], MAP_AREA 10(R1), HEADER_FOINTER WINDOW_ENDVBN, HEADER_VBN 11\$ 20\$	0635 0636 0637 0638
		59 59	08	A1 02	9A 000AF C6 000B3	115:	MOVZBL DIVL2	8(MAP AREA), R9 #2, R9	0640

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				1	N 4 5-Sep- 4-Sep-	1984 00:46 1984 12:29	:59	VAX-11 Bliss-32 V4.0-742 [F11A.SRCJACPCNTRL.B32;1	Page	(3)
			59 20 A0 57	06 000B6 11 000B8		INCL	145		•	
	57	01	ÃŎ	9A 000BA	12\$:	MOVZBL	1 (HE	ADER_POINTER), HEADER_COUNT		0643
08	5B 10 53	02	A0 80 56	06 000BE 30 00000 F0 00004		MOVZWL	2 (HE	ADER POINTER), HEADER_COUNT ER (DUNT ADER POINTER), HEADER LBN DER POINTER)+, #16, #8, HEADER_LBN		0644
00	53		56	D1 000C9		INSV	WIND	DW_ENDVBN, HEADER_VBN		0645 0647
51	53 51		57	19 000CC C1 000CE		BLSS ADDL3	HEAD	ER_COUNT, HEADER_VBN, R1		0648
			6E	00002 19 00005		SLSS ADDL2	205	DW_ENDVBN, R1		
	53 DD 55 52 51 53			CO 000D7 F5 000DA	135:	ADDL 2 SOBGTR	HEAD!	R_COUNT, HEADER_VBN 2\$ CB), FCB ENT_WINDOW, WINDOW SEGMENT INDOW_SEGMENT), WINDOW_VBN		0650 0640
	55	0000G	A5	DO 000DD DO 000E1		MOVL	12(F)	(B), F(B		0652
	51	20	Ã2	DO 000E6	15\$:	MOVL	44(4)	INDOW SEGMENT), WINDOW VBN	•	0659 0663 0664
			27	000EA		CMPL BLEQ MOVAB	18\$	DM_ADM' WEWNER ADM		0664
	54	30 16	A2 50 84 50 85 65 65	9E 000EF 3C 000F3		MOVAB	48(R)	2), WINDOW_POINTER INDOW_SEGMENT), J		0665 0666
			50 06	D6 000F7		INCL BRB	J 17\$			
	56		84	3C 000FB	16\$:	MOVZWL	(WIN	DOW_POINTER)+, R6		0668
	56 51 54 53		04	CO 000FE		ADDL2	#4.	NINDOM-BOINLEK		0669
	55		51 0D	01 00104 18 00107		CMPL BGEQ	WIND(	DW_VBN, HEADER_VBN		0670
	EF 52	20	50	F5 00109	17\$:	SOBGTR	J. 10	S\$ INDOW_SEGMENT), WINDOW_SEGMENT		0666
	72		<b>D4</b>	12 00110		BNEQ	15\$		: 1	0674 0676
			000	0 * 00114		BUGW . WORD	<bug!< td=""><td>WCBFCBMNG!4&gt;</td><td>:</td><td></td></bug!<>	WCBFCBMNG!4>	:	
	55 54	20		00 00116		MOVL	35(M)	FCB, FCB (NDOW_SEGMENT), NEXT_SEGMENT		0684 0685
			52	DD 0011D		PUSHL	WIND(	DW_SEGMENT -		0686
		0000v	01 SE CF	DD 0011F DD 00121 9F 00123		PUSHL PUSHAB	SP	SEGMENT		
00000000G	9F	00004	04	B 00127	19\$:	CALLS	14,	SEGMENT MSYSSCMKRNL		0/07
			13	FB 00127 05 0012E 13 00130		TSTL BEQL	205	SEGMENT		0687
	50	20	54 A4	00 0011D 00 0011F 00 00121 9F 00123 FB 00127 05 0012E 13 00130 00 00132 00 00135 00 00138 00 00138 00 00138 00 00148		MOVI	NEXT	SEGMENT, JUNK SEGMENT XT_SEGMENT), NEXT_SEGMENT SEGMENT		0691 0692
			50	DD 00139		PUSHL	JUNK.	SEGMENT		0693
		000011	SE	DD 0013D		MOVL PUSHL PUSHL PUSHL	SP			
		0000v	ES	11 00143		BRB	195	NE_mindom		
		20	A5 01	DD 00145	208:	PUSHL	44(F)	(8)		0704
		0104	8F	BB 0014A		PUSHR PUSHL		R2,R8>		
		00000	04 SE CF	DD 00145 DD 00148 BB 0014A DD 0014E DD 00150 9F 00152 FB 00156 E1 00150		PUSHL	SP	11710011	:	
00000000G 0000G	9F	00006	07	FB 00156 E1 00150		PUSHAB	W7	WINDOW MSYSSCMKRNL		
03 00006	CF	0	02 0A1	E1 0015D		BBC	31\$	CLEANUP_FLAGS+1, 21\$		0705

## ACPCNTRL V04-000

			16-	Sep-198 Sep-198	84 00:46 84 12:29	:59 VAX-11 Bliss-32 V4.0-742 :18 [F11A.SRCJACPCNTRL.B32;1	Page 12 (3)
	~	0C A	5 05 00166 2	18:		12(FCB)	; 0711
		20 Å	D 13 00169 2 D5 0016B 2	28:	TSTL BEQL TSTL	32(WINDOW SEGMENT)	0712
	52	20 A	D 13 00169 2 D5 0016B 27 6 13 0016E 2 D0 00170 5 11 00174 5 D0 00176 21		BEQL MOVL BRB MOVL	32(WINDOW_SEGMENT), WINDOW_SEGMENT	0713
	55	OC A	5 11 00174	35:	BRB	228 12(FCB), FCB	•
	,,	5	5 DD 0017A		PUSHL	FCB -(SP)	0714 0715
0000G	CF 58	7 0 5 8 2 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D5 00166 2: D13 00169 D5 0016B D5 0016B D6 13 00170 D7 11 00174 D8 D0 00176 D8 D0 00176 D8 D0 00176 D9 D0 00183 D0 00186 D0 00186 D1 00186 D0 00187 D0 00187 D0 00199 D0 00199 D0 00196 D0 00196 D0 00188		CLRL CALLS MOVL	W2. READ_HEADER	
50		é	0 11 00186		BRB ADDL3	20\$	0702 0718
50	6E	6	0 C1 00188 24	48:	MOVL	(RO), WINDOW_SEGMENT	:
		0 800	3 12 0018F 25	58:	BNEQ BRW	26\$ 35\$	0719
	50	OUUUG L	F DO 00194 20	68:	MOVL	PRIMARY_FCB, RO	: 0722
		14 A	0 DD 00199 2 DD 00190		PUSHL	20(RO) WINDOW_SEGMENT	
		9	2 DD 0019E		PUSHL	W2 SP	
00000000	00	0000v ć	F 9F 001A2		PUSHAB	ADD_WINDOW #5. a#SYS\$CMKRNL	
00000006	9F 52	20 Å	DO 0018C 12 0018F 25 18 31 00191 F DO 00194 DD 00199 DD 0019C DD 0019C DD 001AC F PF 001AC F PF 001AC F PF 001AC T PF 001AC		CALLS MOVL BRB	32(WINDOW_SEGMENT), WINDOW_SEGMENT 25\$	0723
	55	0000G C	C 11 001B1	7\$:	BRB MOVL	25\$ PRIMARY FCR FCR	: 0719
	55 52	00006 ç	F DO 001B8		MOVL	PRIMARY_FCB, FCB CURRENT_WINDOW, WINDOW_SEGMENT	0735 0736
		õ	F DO 001B3 21 F DO 001B8 DD 001BD DD 001BF E DD 001C1 F 9F 001C3 F FB 001C7 5 D5 001CE 20 3 13 001D0		PUSHL	WINDOW_SEGMENT	0737
		0000v C	F ND 00161		PUSHL	SP MARK_CATHEDRAL	•
0000000G	9F	ğ	F 9F 001C3 4 FB 001C7 5 D5 001CE 28 3 13 001D0 5 DD 001D2		CALLS	#4. ##SYSSCMKRNI	
		5	5 D5 001CE 28 3 13 001D0 5 DD 001D2 E D4 001D4	B\$:	TSTL	FCB 33\$ FCB -(SP)	0746
		5	5 DD 001D2 E D4 001D4		PUSHL	FCB	0749
00006	CF 58	Ó	2 FB 00106		CALLS	M2. READ_HEADER	
	58	20 A	0 DO 001DB 2 D5 001DE 29	98:	MOVL TSTL BEQL	#2, READ_HEADER RO, HEADER 32(WINDOW_SEGMENT)	0750
	52	20 A	6 13 001E1 2 DO 001E3		BEQL	30\$ 32(WINDOW_SEGMENT), WINDOW_SEGMENT	0751
		2C A	5 DD 001E0 3/	08:	MOVL BRB PUSHL	29\$ 44(FCB)	0752
		0104	DD 001E9 30 DD 001EC BB 001EE DD 001F2 E DD 001F4 F 9F 001F6 F FB 001FA E1 00201 F DD 00207 3		PUSHL	<b>#1</b>	
		0104 8	4 DD 001F2		PUSHL PUSHR PUSHL	#^M <r2,r8></r2,r8>	
		00006 Ç	E DD 001F4		PUSHAB	SP TURN_WINDOW	
000000006	9f	0	7 FB 001FA		CALLS	#7. Z#SYS\$CMKRNI	0757
18 0000G	CF	0000G C	F DD 00207 3	15:	BBC PUSHL	#2, CLEANUP FLAGS+1, 32\$ CURRENT WINDOW	0753
		Q	II UU UUZUK		PUSHL PUSHL	W1 SP	
00000000	00	00006	7 FB 001FA 2 E1 00201 F DD 00207 3 1 DD 0020B E DD 0020D F 9F 0020F 4 FB 00213		PUSHAB	MARK_INCOMPLETE	
0000000G	9f	2A14 8	F BF 0021A		CALLS	#4, 3#SYS\$CMKRNL #10772	0757
			04 0021E		RET		•

ACPCNTRL V04-000					1	5 6-Sep-1 4-Sep-1	984 00:46 984 12:29	5:59 5:18	VAX-11 Bliss-32 V4.0-742 [F11A.SRC]ACPCNTRL.B32;1	Page 1
		55 0	C A	5 00	00215	328:	MOVL		(B), F(B	: 075
		50 000 52 2	OG CI	F D(	00223	33\$:	MOVI	28\$ CURRE	NT_WINDOW, RO )), WINDOW_SEGMENT	075 074 076
			- 11	F 13	00255	348:	BEOL	222		076
		50 000	0G CI	0 DE 2 DE 2	00235 00238 00238		MOVL BEGL MOVL PUSHL PUSHL PUSHL PUSHAB	20 (RC	ARY_FCB, RO DW_SEGMENT	0760
	00000000	000	ov či	F 91	0023E		PUSHL	ADD &	INDOM	;
	000000006	9F 52 2	O A	5 00	00249		CALLS MOVL BRB	32 (W)	MSYSSCMKRNL INDOW_SEGMENT), WINDOW_SEGMENT	076
		000	oe či	F DC	00253	35\$:	PUSHL PUSHL PUSHL PUSHL PUSHAB	#1	NT_WINDOW	076 076 077
	00000000G	9F 000	06 00	F 9F 4 FE 04	00257 0025B	36\$:	PUSHAB PUSHAB CALLS RET	SP MARK #4,	COMPLETE:	077

; Routine Size: 611 bytes, Routine Base: \$CODE\$ + 003A

ALL Sym

ACPCNTRL V04-000 \$20 \$21 \$22 \$23 \$24 \$25	0831 0832 0833 0834 0835 0836	2	PL (0);				12	5 -Sep-	1984 00:46: 1984 12:29:	59 VAX-11 Bliss-32 V4.0-742 18 [F11A.SRCJACPCNTRL.B32;1	Page 15 (4)
523	0834 0835 0836	2 RETURN END;	1;						! end of r	outine MARK_CATHEDRAL	
						0000	00000	MARK	.PSECT	\$LOCKEDC1\$, NOWRT, 2	
		07	0B 2C	50 12 A0 A0	04 A 00 00 00 16 A 40 8				WORD	Save nothing WINDOW, P #8, #18 #5, 11(P), 1\$ #1, 44(P) 22(P) #64, 11(P) #0, #18	0779 0819 0821 0821 0821 0831 0831 0831
			08	A0 12	16 A 40 8	C DO 8 DA 55 EO 10 B4 F 88 O DA 04	00002 00006 00009 0000E 00012 00015 0001A	18:	CLRW BISB2 MTPR RET	22(P) #64, 11(P) #0, #18	0827 0837 0837 0837
; Routine Siz	e: 30 b	ytes,	Routine	Base:	\$LOCKEDC1		000				

ALL

C 04 BC 0E 00002 INSQUE AWINDOW, AQUEUE\_HEAD RET

ave nothing : 0837 WINDOW, aqueue\_HEAD : 0876 : 0880

; Routine Size: 8 bytes, Routine Base: \$LOCKEDC1\$ + 001E

Pse

PSE

SAB SLO

Pha Ini Comi Pas Symi Pas Symi Pse Cro

The 363 The 338 20

ASS

-\$2 -\$2 TOT. 747

Mac

MAC

The

RETURN:

END:

! end of routine REMOVE\_WINDOW

\*\*

Page

ACPCNIRL 16-Sep-1984 12:29:18 (F11A.SRCJACPCNIRL.B32:1 Page 18 (6)

50 04 BC 0F 00002 REMQUE aWINDOW, DUMMY : 0925
0000G CF 04 BC 0D 00006 PUSHL WINDOW : 0926
04 0000E RET #1, DEALLOCATE : 0930

; Routine Size: 15 bytes, Routine Base: \$LOCKEDC1\$ + 0026

BAD

```
I 5
16-Sep-1984 00:46:59
14-Sep-1984 12:29:18
ACPCNTRL
V04-000
                                                                                                                             VAX-11 Bliss-32 V4.0-742 [F11A.SRCJACPCNTRL.832;1
                                                                                                                                                                                Page
                                   ROUTINE LAST_SEGMENT (WINDOW) : NOVALUE =
    0934
0935
0936
0937
0938
0947
0944
0944
0944
0946
0946
0949
                                     FUNCTIONAL DESCRIPTION:
                                              This routine zaps the link pointer of the specified window segment therefore making it the last segment in the Cathedral window.
                                     CALLING SEQUENCE:
LAST_SEGMENT (ARG1)
                                     INPUT PARAMETERS:
                                              ARG1: address of the window segment
                                     IMPLICIT INPUTS:
                                              none
                                     OUTPUT PARAMETERS:
                                              none
                                     IMPLICIT OUTPUTS:
                                              none
                                     ROUTINE VALUE:
                                              none
                                     SIDE EFFECTS:
                                              none
                       0960
0961
0962
0963
0964
0965
0966
0967
0968
                                  BEGIN
                                  MAP
                                              WINDOW
                                                                    : REF BBLOCK:
                                                                                                      ! address of the window segment
                                  WINDOW[WCB$L_LINK] = 0;
                       0970
                                  RETURN;
                       0971
                       0972
                                  END:
                                                                                                      ! end of routine LAST_SEGMENT
                                                                              0000 00000 LAST_SEGMENT:
                                                                                                                    Save nothing WINDOW, RO 32(RO)
                                                                                                                                                                                      0931
0968
                                                                                                          . WORD
                                                                    20
                                                                                     00002
00006
00009
                                                        50
                                                                                                         MOVL
                                                                                                         CLRL
                                                                                                                                                                                      0972
                                                                                                         RET
: Routine Size: 10 bytes,
                                           Routine Base: $LOCKEDC1$ + 0035
                       0973 1
```

665

BAD VO4

ACPCNTRL V04-000 VAX-11 Bliss-32 V4.0-742 [F11A.SRCJACPCNTRL.B32;1 Page (7) 666 0974 1 END 0975 0 ELUDOM PSECT SUMMARY Name Bytes Attributes SCODES SLOCKEDC1S EXE, NOSHR, LCL, EXE, NOSHR, LCL, NOVEC, NOWRT, NOVEC, NOWRT, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) RD : REL. Library Statistics ----- Symbols -----Processing Pages File Total Loaded Percent Mapped Time 18619 \_\$255\$DUA28:[SYSLIB]LIB.L32:1 36 1000 00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: ACPCNTRL/OBJ=OBJ\$: ACPCNTRL MSRC\$: ACPCNTRL/UPDATE=(ENH\$: ACPCNTRL)

Size: 732 code + 0 data bytes
Run Time: 00:20.5
Elapsed Time: 00:52.0

Run Time: 00:20.5 Elapsed Time: 00:52.0 Lines/CPU Min: 2860 Lexemes/CPU-Min: 14435 Memory Used: 231 pages Compilation Complete

: 6

BAD VO4

:

0164 AH-BT13A-SE

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